Asthma in Utah: A Look at the Data



Utah Department of Health
Asthma Program
March 2002



Assessing the Burden of Asthma in Utah

- Mortality
- Prevalence
- ER Utilization
- Hospital Utilization

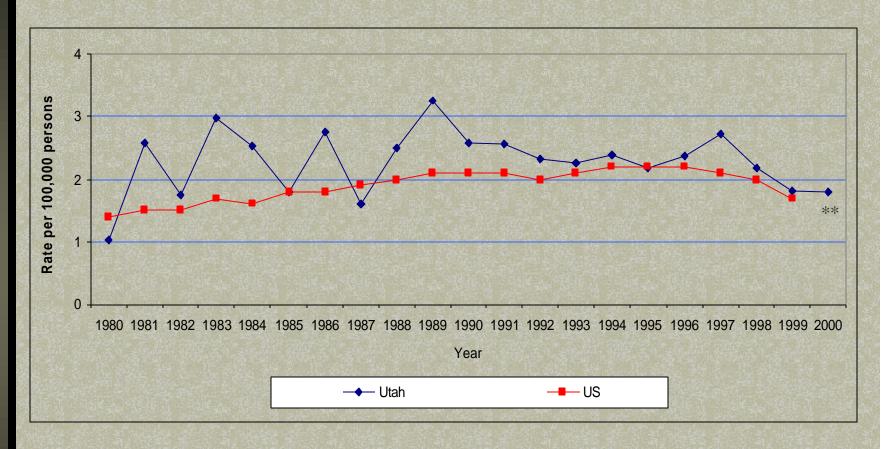


Mortality Data

- Data Source: Death certificates, Bureau of
 Vital Statistics (IBIS* Indicator Based Information System)
- Asthma listed as underlying cause of death
- ICD-9 code (up to 1998): 493
- ICD-10 (from 1999)code: J45, J46
- Utah Data Availability: 1980-2000

^{*} http://ibisph.state.ut.us

Asthma Mortality Rates, Utah and US:1980 - 1999*



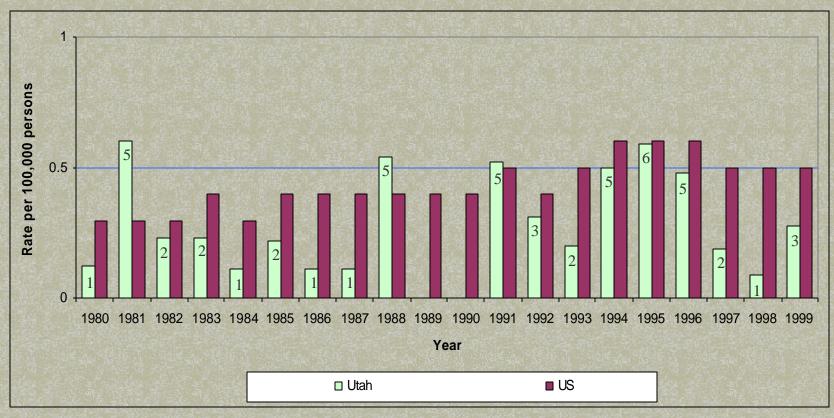
^{*} Rates for Utah and US have been age-adjusted to the 2000 US standard population

Note: Utah mortality rates are based on small numbers

Source: National Center for Health Statistics, Utah DOH Vital Statistics via IBIS

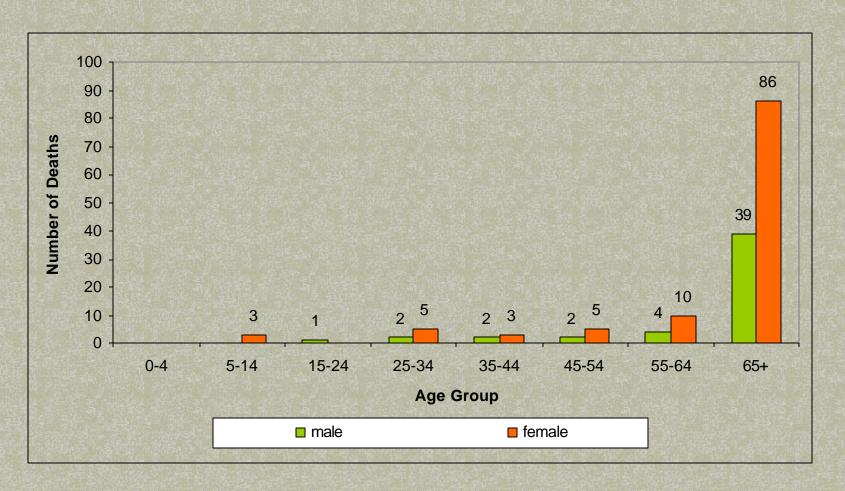
^{** 2000} US Asthma Mortality data not available.

Asthma Mortality Rates for Persons 5-34 Years of Age, Utah and US: 1980 – 1999



^{*}Number of deaths in Utah shown within green bars Source: National Center for Health Statistics, Utah DOH Vital Statistics via ACTION 2000





Source: Utah DOH Vital Statistics via ACTION 2000



Utah's Asthma Prevalence Data

2001 Health Status Survey (HSS), all ages

Behavioral Risk Factor Surveillance
 System(BRFSS), adults only (18+ years)



2001 Utah Health Status Survey

- Telephone survey of civilian, noninstitutionalized Utah residents
- Random selection of one adult (18+) per household (responded for everybody in hh)
- Interview period: May-November 2001
- Sample of 7,520 household statewide (24,088 individuals)



2001 Utah Health Status Survey

Definition of Asthma

Survey participants were asked:

- "Is anyone living in your household currently under medical care for asthma?"
- If yes, the respondent was asked to list all household members meeting this criterion.



Behavioral Risk Factor Surveillance System

- National data collection program (CDC)
- For adult population (18+) only
- Method: monthly telephone interviews
- Some 3,000 Utahns completed interviews in 2000



2000 Utah BRFSS

Definition of Asthma

Adults aged 18 or older were asked:

- "Did a doctor ever tell you that you had asthma?" and
- "Do you still have asthma?"

If the respondent answered "yes" to both of these questions, then he/she was considered to have asthma.



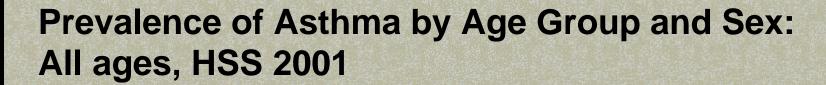
Asthma prevalence in Utah

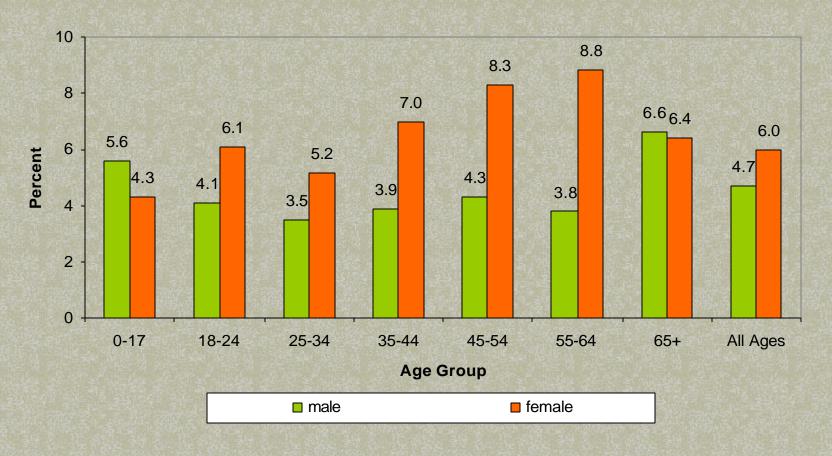
2001 Health Status Survey (HSS)

- 5.3% (all ages) or 5.5% (18 years or older)
- Estimated 118,400 Utahns (83,300 Adults)

2000 BRFSS

- 7.96% Utah adults (US: 7.53%)
- Estimated 121,000 Utah adults

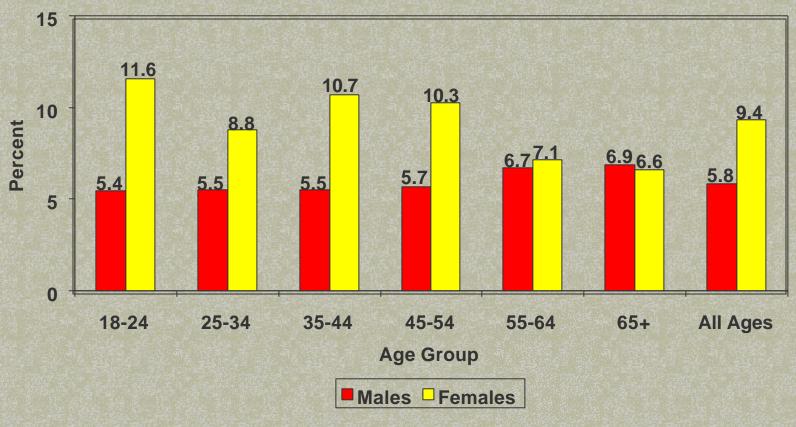




Source: Utah Health Status Survey, 2001

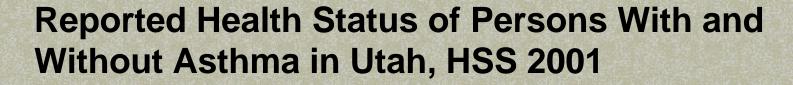


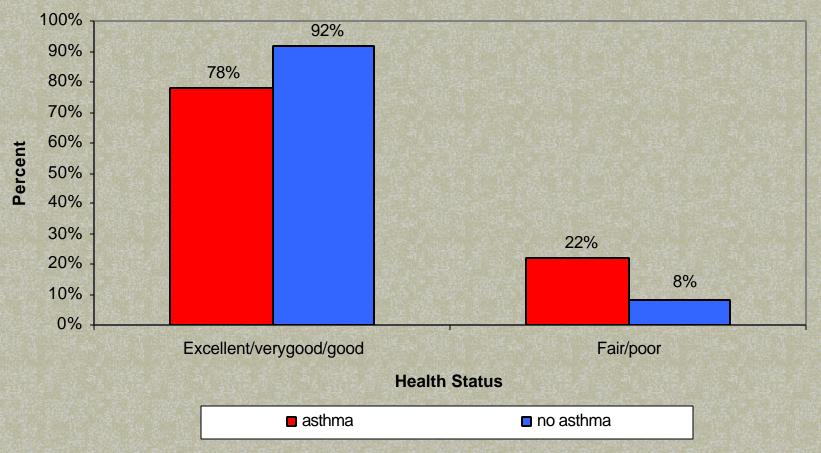
Prevalence of Asthma by Age Group and Sex Utah Adults 18 or Older: BRFSS, 2000



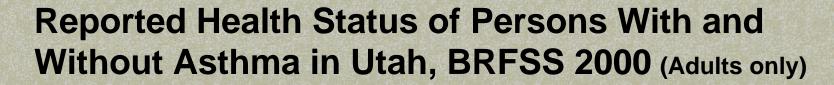
Source: Utah Behavioral Risk Factor Surveillance System, 2000

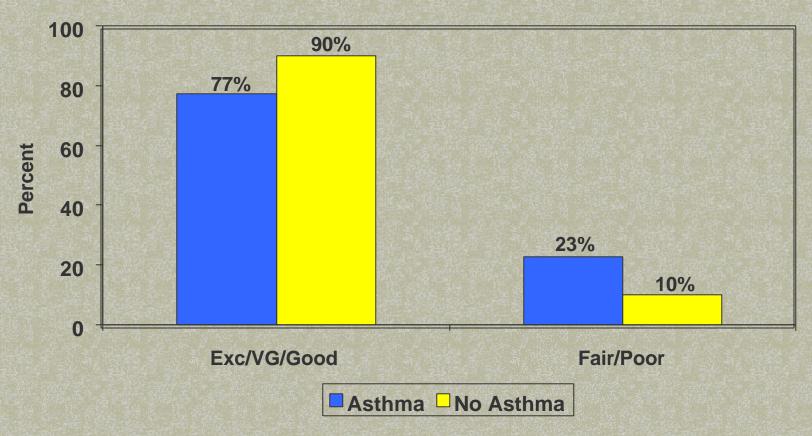




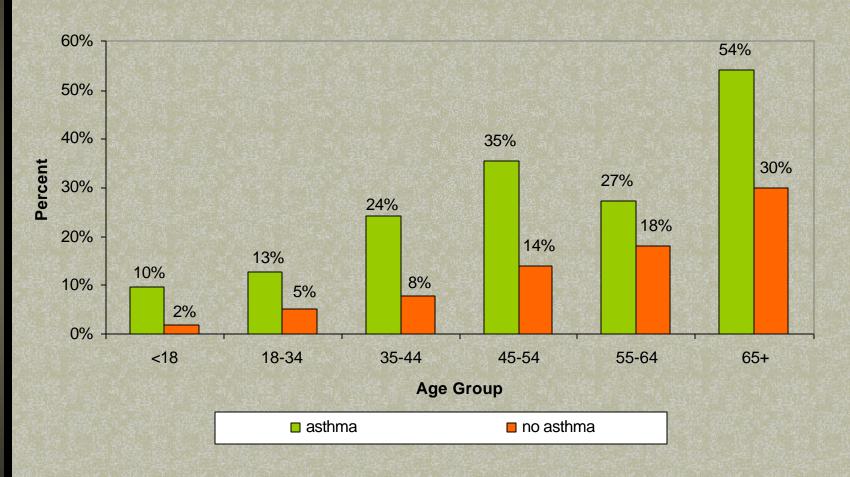


Source: Utah Health Status Survey, 2001









Source: Utah Health Status Survey, 2001

Other Burdens of Asthma



ER Visits and Hospitalizations for Asthma in Utah

Primary diagnosis - Asthma (ICD9:493 or ICD10:J45)

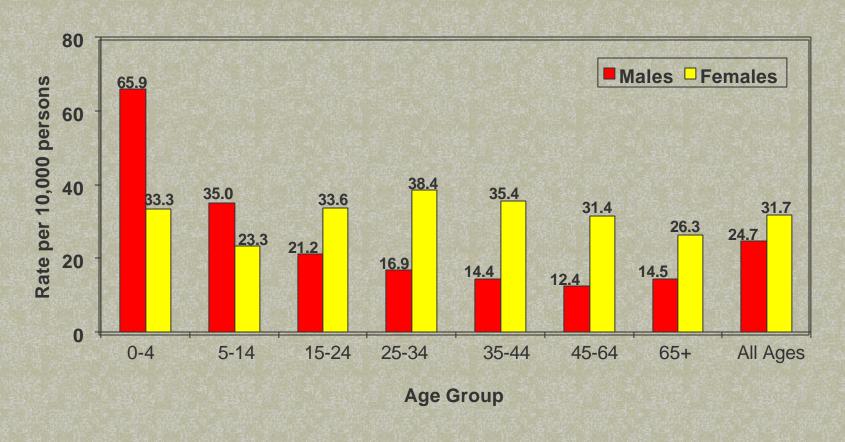
ER Visits

- About 5,300 ER visits in 1998
- 40% for children under 18 years

Asthma Related Hospitalizations

- About 1,400 Hospitalizations in 2000
- 45% for children under 18 years

Rate of Emergency Room Visits for Asthma by Age Group and Sex, Utah 1998

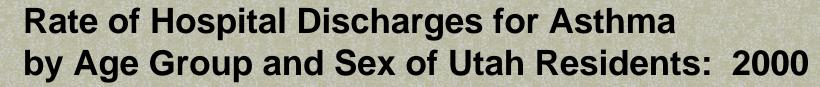


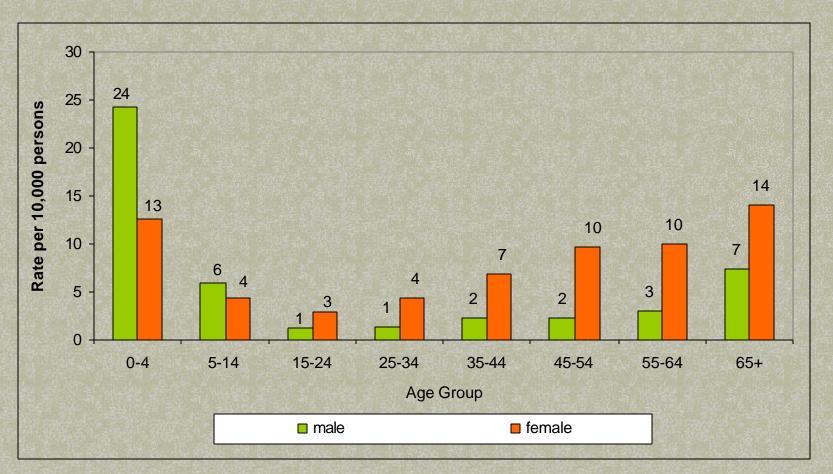
^{*} Includes visits which resulted in hospitalization Source: Utah DOH, Emergency Room Database 1998



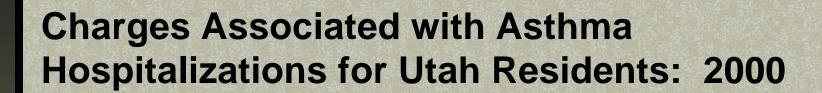


Source: Utah Hospital Discharge Data, 1992-2000





Source: Utah Hospital Discharge Data, 2000



Total Charges

(includes facility and professional charges):

\$6,603,413

Average Charges

(the average dollars spent for each asthma inpatient): \$4,304

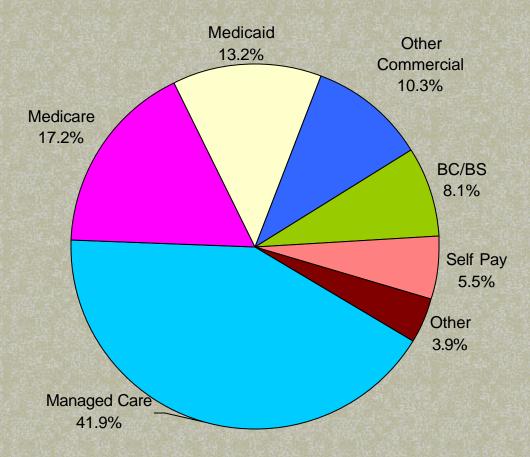
Per Capita Charges

(the average dollars spent for asthma hospitalizations by each Utahn)

\$ 2.93

Source: Utah Hospital Discharge Data, 2000





Category "Other" includes Other Government, Unknown Payer, Charity, Worker's Comp Source: Utah Hospital Discharge Data, 2000

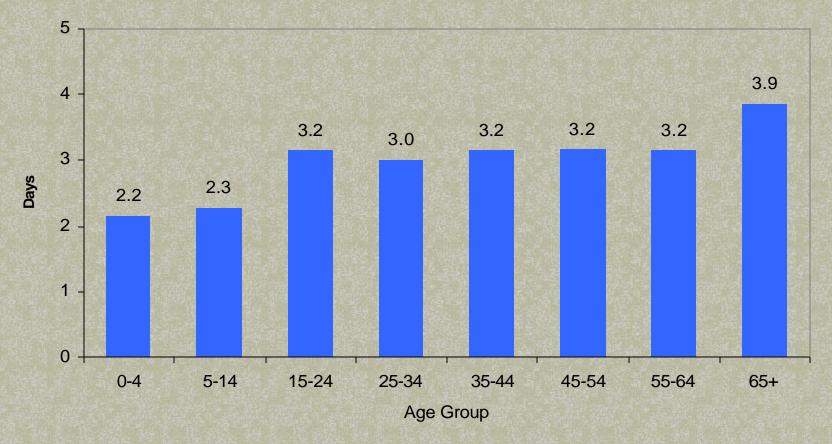




Note: Charges exclude outliers

Source: Utah Hospital Discharge Data, 2000





Note: Length of stay excludes outliers

Source: Utah DOH, Office of Health Care Statistics



Summary of Data

- Asthma mortality rates are increasing nationally; local rates have not increased appreciably
- Over 118,000 Utahns reported receiving medical care for asthma in 2001; an estimated 83,000 ~ 121,000 adults reported having asthma (HSS 2001, BRFSS 2000)
- Asthma appears to negatively affect one's perception of health status
- Asthma related ER visits by children comprised 40% of all ER visits for asthma in Utah in 1998
- Asthma related hospitalizations by children comprised 45% of all hospitalizations for asthma in Utah in 2000
- Hospitalizations for asthma place an economic burden on Utah's health care system (6+ million/year)



- Further analysis of available data
- Additional data collection